

NOTES ON MESEMBRYANTHEMUM AND ALLIED GENERA

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Dorotheanthus booyseii L. Bol. sp. nov.—Partes herbaceae grosse papillatae; folia spathulata vel subspathulata, parte inferiore ad duplo longiore quam parte superiore vel eam aequante, parte superiore rotundata, ad 1·3 cm. lata; pedunculi 1·5—3 cm. longi; receptaculum 4 mm. longum, 7 mm. diam.; sepala 5, subaequilonga, omnia angustissime marginata, acuta vel obtusa, 5 mm., vel in flore seniore ad 1 cm., longa; petala 3-seriata, sat laxa, acuta vel obtusa, alba vel cum aetate pallide roseo tincta, ad 2·5 cm. longa, ad 3 mm. lata; stamina 3—4-seriata, filamentis antherisque saturate rubris; stigmata 5, gracilia papillata rosea, ad 5 mm. longa; capsula immatura ad 2·5 cm. diam.

Cape Province: "on the farm Voelfontein, owned by Mr. W. A. Booysen, 35 miles N.W. of Sutherland, alt. 4800 ft., Sept. 5, 1968, *H. Hall* 3279. "Several hundred plants were seen, in rather stony ground, thinly dispersed among the sparse vegetation. About ten per cent bore flowers with pale violet-tipped petals. In view of the exceptionally good rains this species did not show the luxuriance usually noted with similar annual species. It grows in association with dwarf, spiny *Eberlanzia*, the shrubby *Euryops lateriflorus*, *Dimorphotheca cuneata* which is so abundant as to resemble patches of snow with their showy flowers, as is similarly observed by the equally abundant white-flowered, dwarf *Heliophila* sp., and an even dwarfer species of *Cotula* or *Cenia* with whitish flowers, all of which tended to camouflage the *Dorotheanthus*. At the elevation of this and neighbouring farms the winters are cold, bleak and windswept. Mr. Booysen informed us that 5 or 6 inches of snow blanketed the area about 10 days previous to our visit, and that several degrees of night frost are normal for the area throughout the winter."

Dorotheanthus rourkei L. Bol. sp. nov.—Plantae 7 visae, ad 6 cm. altae, 6—12 cm. diam.; partes herbaceae inconspicue papillatae; folia spathulata vel subspathulata vel fere linearia, 2·5—4 cm. longa, ad 7 mm. lata; pedunculi 1·5—6 cm. longi; receptaculum obconicum, ad 4 mm. longum, ad 5 mm. diam.; vel in fructu ad 1 cm. vel ultra accrescens; sepala 5, obtusa, omnia angustissime marginata, 8—10 mm. longa, basi 2—4 mm. lata; petala 4-seriata, acuta vel acuminata, prope medium latissima, ad 4 mm. lata, saturate rubra, ad 3 cm.

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longa; stamina 3-seriata, filamentis rubris, 2—3 mm. longis, antheris aureis; stigmata 5, angustissime subulata, 3 mm. longa vel in immatura capsula ad 5 mm. accrescentia.

Cape Province: Namaqualand; "on the Groenrivier Road, between Garies and the Nuwefontein—Kotzesrus area, about 15 miles S. of Garies, 8th Aug. 1967, *J. P. Rourke* 814. "Growing in sandy patches on an area of about 1 acre in extent. Petals brilliant scarlet. Approximately 36 plants collected."

Lampranthus tenuis L. Bol. sp. nov.—Gracillimus glaber, 26 cm. altus; folia fere erecta, acuta, 6—11 mm. longa, vix ad 2 mm. diam; flores solitarii diurni, 1·6—2 cm. diam; pedunculi 5—6 mm. longi; receptaculum obconicum, ad 3 mm. longum, ad 4 mm. diam.; sepala 5, subaequilonga, acuta vel acuminata, 4 mm. longa, interiora marginata; petala 1—2-seriata, inferne leviter angustata, subobtusata, pallide purpureo rosea, ad 9 mm. longa, ad 1·5 mm. lata; staminodia tenuissime capillacea, saturate rubra, ad 4 mm. longa; stamina 3—4-seriata, filamentis parum supra medium papillatis, antheris luteis; discus crenulatus; stigmata 5, prope apicem leviter angustata, viridia, 2·5 mm. longa.

Cape Province: Cape Peninsula; Kenilworth Race Course, Sept. 1968, *E. Esterhuysen* 32044. "Amongst low bush on small hillocks in marshy area near *Elegia verreauxii* and *Chondropetalum rectum*. Erect or falling over, rather slender, not much more than 1 ft. tall. Propagating, easily from shoots falling to the ground and rooting."

Cephalophyllum francisci L. Bol. sp. nov.—Planta integra 1 visa, glabra, 9 cm. alta, 18 cm. diam.; flores 12 ferens, caule lignoso, 1 cm. longo diametroque et 4 rami floriferi, ad 11 cm. longi, caule ad 3 cm. longo, ad 1 cm. diam.; folia erecta vel demum patentia, acuta apiculata, ad 8 cm. longa, 7 mm. lata diametroque, vagina 5 mm. longa; pedunculus 1-fl., prope basim bracteatus, bracteis 1·5—2 cm. longis, vagina ad 6 mm. longa; receptaculum 4—8 mm. longum, diam., 1 cm.; sepala 5, exteriora 2 longe acuminata, apiculata 1·1 cm. longa, 8 mm. lata, interiora obtusa, late membranaceo marginata, 7—10 mm. longa, 7—8 mm. lata; petala 3-seriata, inferne leviter angustata, obtusa vel leviter emarginata, laete roseo purpurea, 2—3 cm. longa, 2—3 mm. lata; stamina ad 4-seriata, filamentis gracillimis, pallide roseis, ad 5 mm. longis, antheris saturate rubre brunneis, ad 1·5 mm. longis; ovarium leviter elevatum; stigmata 12, intus longe hispida, pallide rosea, ad 5 mm. longa; discus crenulatus.

Cape Province: in dit. Clanwilliam; Elandsvlei, near Cedarberg, Aug. 1968, *F. J. Stayner*. Karoo Garden 237/68.

Note.—The type specimens of all new species described in this paper are in the Bolus Herbarium, University of Cape Town.

(To be continued)